



**Procedure Information Sheet -
Percutaneous Nephrostomy (PCN)**

Visit No.: Dept.:
Name: Sex/Age:
Doc. No.: Adm. Date:
Attn. Dr.:

Page No:

01	02	03	04	05	06	07	08	09
+10	+20	+30	+40	+50	+60	+70	+80	+90

Patient No.: PN

*Please fill in /
affix patient's label*

Introduction

1. Percutaneous Nephrostomy (PCN) is an interventional procedure for external drainage of renal collecting system. It is also performed to create tract for inserting devices, which can be used for stone removal, taking tissue for microscopic examination, dilatation of ureteric narrowing and ureteral stenting.
2. This procedure is performed by radiologists with special training in interventional radiology or by urological surgeons.
3. Percutaneous Nephrostomy is usually performed in the Department of Radiology under image guidance, such as X-ray and ultrasound. The procedure can also be performed in operation theatre if there are imaging facilities available.

The Operation / Procedure

1. The patient is lying face down or slight slanting position.
2. The puncture site is at the flank region. After injection of local anaesthesia, a needle is advanced under image guidance (either X-ray or ultrasound). When the needle tip is in the collecting system, contrast medium is introduced through the needle in order to show up the collecting system.
3. By means of exchange over guidewire and tract dilatation, the PCN catheter is placed and is connected to a urine bag. Patients should take care not to dislodge the drainage catheter.
4. The procedure usually requires 1 hour.
5. Before, during and after the procedure, patient's vital signs (like blood pressure and pulse rate) will be monitored. Diet can be resumed if the vital signs are stable.
6. The duration of catheter insertion depends on patient's clinical condition and the subsequent management of patient's disease.

Before the Operation / Procedure

1. A written consent is required.
2. Inform medical staff before the examination if the patient thinks she is pregnant.
3. Inform medical staff if patient has any allergies to food, drug, local anesthesia or contrast media. Oral or Intravenous steroid premedication may be needed before injection of contrast medium
4. Inform medical staff if the patient is on anticoagulant or antiplatelet drugs. Withhold the medication as doctor prescribed.
5. Check clotting profile for any bleeding tendency, to be corrected if abnormality detected.
6. Fast for 3 hours before examination.
7. Appropriate antibiotics may be given to the patient before and after the procedure.
8. For diabetic patients on Metformin medication, patient should inform medical staff before examination.
9. Set up venous access when necessary.



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Risk and Complication

1. Small amount of blood in urine (very common, but is self-limiting).
2. Pain (common).
3. Catheter-related problems (obstruction, malposition, dislodgement) (12%).
4. Infectious complications (1.4-21%).
5. Bleeding requiring transfusion (2.8%).
6. Urine leakage outside the collecting system (less than 2%).
7. Massive bleeding into the collecting system requiring surgery or occlusion of the bleeding artery through catheters (1%).
8. Collection of air in pleural space (1%).
9. Bleeding into tissue surrounding the kidney (rare).
10. Procedure related death (rare).
11. The overall adverse reactions related to iodine-base contrast medium is below 0.7%. The mortality due to reaction to non-ionic contrast medium is below 1 in 250,000.
12. Allergic reaction to intravenous contrast medium.

General Risks

12.1 Mild reactions

For example, itching, mild skin rash, nausea, vomiting, feeling of warmth, arm pain, sneezing, coughing, and chest tightness. A few patients may experience delayed reactions usually within 24 hours, which include pain at injection site, itching, rash, painful or swollen salivary glands. The symptoms are usually transient, requiring minimal or no treatment.

- 12.2 Moderate reactions:** These symptoms are more severe and last for longer duration. Patient may also experience rash or urticaria, fever and chills, an increase or decrease in blood pressure and palpitation. Specific treatment and close monitoring are required.

12.3 Severe reactions

The symptoms include shortness of breath, irregular heartbeat, chest pain, severe kidney failure, convulsion and unconsciousness. If these symptoms occur, the patient will require urgent medical treatment.

Should a complication occur, another life-saving procedure or treatment may be required immediately.



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Disclaimer

This leaflet only provides general information pertaining to this operation / procedure. While common risks and complications are described, the list is not exhaustive, and the degree of risk could also vary between patients. Please contact your doctor for detailed information and specific enquiry.

Reference

1. The Hong Kong Society of Interventional Radiology Limited, Patient Information Leaflet: Percutaneous Nephrostomy (PCN) (2010)
2. Smart Patient Website by Hospital Authority: Percutaneous Nephrostomy (2004)

I acknowledge that I have understood the above information and was given opportunity to ask questions concerning my procedure.

Name of Patient / Relative

Signature

Relationship (If any)

Date